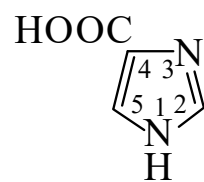




>>Entry Name: 1*H*-Imidazole-4(5)-carboxylic acid, 9CI



CAS Registry Number: 1072-84-0

Molecular Formula: C₄H₄N₂O₂

Molecular Weight: 112.088

Accurate Mass: 112.027278

Percentage Composition: C 42.86%; H 3.60%; N 24.99%; O 28.55%

Melting Point: Mp 284°

Aldrich: 42584-2

>>Derivative: Me ester

CAS Registry Number: 17325-26-7

Molecular Formula: C₅H₆N₂O₂

Molecular Weight: 126.115

Accurate Mass: 126.042928

Percentage Composition: C 47.62%; H 4.80%; N 22.21%; O 25.37%

Melting Point: Mp 154-156°

Aldrich: 42750-0

>>Derivative: Et ester

CAS Registry Number: 23785-21-9

Molecular Formula: C₆H₈N₂O₂

Molecular Weight: 140.141

Accurate Mass: 140.058578

Percentage Composition: C 51.42%; H 5.75%; N 19.99%; O 22.83%

Melting Point: Mp 160-162°

>>Derivative: Amide

CAS Registry Number: 26832-08-6

Molecular Formula: C₄H₅N₃O

Molecular Weight: 111.103

Accurate Mass: 111.043262

Percentage Composition: C 43.24%; H 4.54%; N 37.82%; O 14.40%

Physical Description: Cryst. + 1H₂O

Melting Point: Mp 214°

>>Derivative: Methylamide

Molecular Formula: C₅H₇N₃O

Molecular Weight: 125.13

Accurate Mass: 125.058912

Percentage Composition: C 47.99%; H 5.64%; N 33.58%; O 12.79%

Melting Point: Mp 145°

>>Derivative: Nitrile

Synonym(s): 4(5)-Cyanoimidazole

CAS Registry Number: 57090-88-7

Molecular Formula: C₄H₃N₃

Molecular Weight: 93.088

Accurate Mass: 93.032697

Percentage Composition: C 51.61%; H 3.25%; N 45.14%

Physical Description: Light-yellow powder

Melting Point: Mp 141-144°